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(54) Title: HEAT SPREADER

(57) **Abstract:** A heat spreader for an electronic device has a layer of CVD diamond, which is continuous and without uncontrolled pits or holes, grown onto a diamond loaded material. The diamond loaded material comprises a mass of diamond particles in a matrix and has a surface with exposed diamond particles on which the layer of CVD diamond is grown. The layer of CVD diamond is bonded to the exposed diamond particles of the diamond loaded material at least in part by epitaxy.